



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010601
CERTIFICATION DATE: November 15, 2013
DATE RECERTIFICATION DUE: May 14, 2014

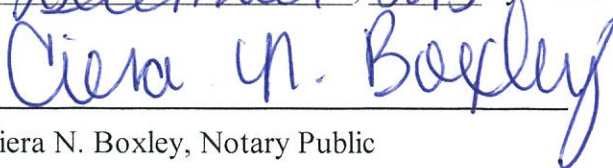
The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.



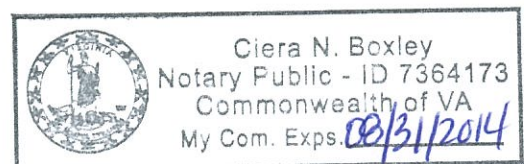
Melissa Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of
December, 2013 by Melissa Kennedy


Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



DBH
M&K

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 11/19/2013**

Instrument Serial Number: 010601 **As of 19-Nov-13**

Maintenance Date	Certification Date	Technician Initials	Remarks
15-Nov-13	15-Nov-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
31-May-13	31-May-13	DBH (21250)	CERTIFIED.
14-Dec-12	14-Dec-12	DBH (21250)	REPLACED KEYBOARD. REPLACED PRINTER RIBBON. CERTIFIED. REPLACED DRY GAS STANDARD.
02-Jul-12	02-Jul-12	TLN (25387)	CERTIFIED
20-Jan-12	20-Jan-12	DBH (21250)	CERTIFIED.
28-Jul-11	28-Jul-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
02-Feb-11	02-Feb-11	RJP (22428)	CERTIFIED.
18-Aug-10	18-Aug-10	RJP (22428)	CALIBRATED AND CERTIFIED.
02-Mar-10	02-Mar-10	RJP (22428)	REPLACED DRY GAS STANDARD. CALIBRATED AND CERTIFIED.
02-Oct-09	02-Oct-09	RJP (22428)	CERTIFIED.
31-Jul-09	31-Jul-09	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
14-Jul-09	14-Jul-09	RJP (22428)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
NHL

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010601 Worksheet Start Date 11/15/2013
Location Page COSO
Address 108 S Court St Luray VA 22835
DFS Technician Donald Hall License No. 21250
☐ Laboratory ☒ On-Site

Site Specifications

	Yes	No
1 Secured Environment: Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Environment free from contaminants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Dedicated telephone line: The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Adequate Ventilation: Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Stable temperature controls: The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 115VAC power source: Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Room Condition: The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Old serial no.	New serial no.	Supplies
E-Seek		Mouthpieces 100
Keyboard		Certificates of Analysis 100
Printer		Operator Worksheet 100
UPS		Other:

Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010601

Certification Date 11/15/2013

Instrument Barometer (mm HG) 740

Reference Barometer (mm HG) 742

Reference Barometer(RB)Serial # 009109

RB Calibration Due 8/1/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.243	0.235	0.250	0.241	
Precision		sample min	sample max		
0		0.241	0.241	0.241	

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.146	0.141	0.150	0.145	
Precision		sample min	sample max		
0		0.145	0.145	0.145	

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.078	0.075	0.081	0.078	
Precision		sample min	sample max		
0		0.078	0.078	0.078	

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.019	0.016	0.022	0.018	
Precision		sample min	sample max		
0.001		0.018	0.019	0.019	

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG320502-23

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.097	0.094	0.100	0.097	
Precision		sample min	sample max		
0		0.097	0.097	0.097	

DFS Technician

Donald B Hall

Date

11/19/13

Issuing Analyst

Melissa Kennedy

Date

11/24/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---------------------------------------------	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/15/2013
TEST EQUIPMENT NUMBER 010601		

RESULTS: TIME SAMPLE TAKEN 14:11 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 18 Nov 2013 at 12:17

DBH
msk

Test Results

Instrument Serial Number 010601

Test # 000639 Subject Test

Test Location 1 Department of
Test Date 15 Nov 2013

Test Location 2 Forensic Science
Test Time 14:05
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 15 Nov 2013 End Time 14:12

Result Time 14:11

Result Date 15 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:06

Data Type BLK

Sample Value 0.000

Sample Time 14:06

Data Type CHK

Sample Value 0.098

Sample Time 14:07

Data Type BLK

Sample Value 0.000

Sample Time 14:08

Data Type SUBJ

Sample Value 0.000

Sample Time 14:09

Data Type BLK

Sample Value 0.000

Sample Time 14:10

Data Type SUBJ

Sample Value 0.000

Sample Time 14:11

Data Type BLK

Sample Value 0.000

Sample Time 14:12

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG219101-15

Standard Expiration Date 07/09/2014

Tank Pressure 786

Barometric Pressure 740 mmHg

Blow Sample Number 1 Blow Duration 3.51 sec

Blow Volume 1814 cc End-of-Blow Time 14:09

Blow Sample Number 2 Blow Duration 3.71 sec

Blow Volume 1957 cc End-of-Blow Time 14:11

Tamper Evident Stamp 5ab5f2ae

Test Status Code 0

Test Status Success

Intox EC/IR-II: Accuracy Check

PWL

Department of Forensic Science

Serial Number: 010601 Test Number: 640

Test Date: 11/15/2013 Test Time: 14:14 EST

Dry Gas Target: 0.097

Lot Number: AG219101-15 Exp Date: 07/09/2014

Tank Pressure: 781 psi Barometric Pressure: 740 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:14
CHK	0.097	14:15
BLK	0.000	14:17
CHK	0.097	14:18
BLK	0.000	14:19
CHK	0.097	14:20

Test Status: Success

Calibration CRC: 80A7AB2B

DBH

WHL

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010601 Test Number: 641

Test Date: 11/15/2013 Test Time: 14:23 EST

Dry Gas Target: 0.292

Lot Number: AG322702-04 Exp Date: 08/15/2015

Tank Pressure: 56 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:24
CHK	0.294	14:24
BLK	0.000	14:26
CHK	0.293	14:27
BLK	0.000	14:29
CHK	0.293	14:29

Test Status: Success

Calibration CRC: 80A7AB2B

DBH

Intox EC/IR-II: Software Version

MM

Department of Forensic Science

Serial Number: 010601

System Date: 11/15/2013

System Time: 14:58 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DBH

MSK

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010601 Test Number: 642

Test Date: 11/15/2013 Test Time: 14:59 EST

Dry Gas Target: 0.097

Lot Number: 0651210013-05 Exp Date: 04/01/2014

Tank Pressure: 365 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:59
CAL	0.097	15:00

Test Status: Success

Calibration CRC: 6577EBA4

DBH

WJL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010601 Test Number: 643
Test Date: 11/15/2013 Test Time: 15:03 EST

Technician Initials: DBH

Dry Gas Target: 0.243

Lot Number: 2961225012-10 Exp Date: 11/01/2014

Tank Pressure: 120 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:04
BLK	0.000	15:04
CHK	0.241	15:05
BLK	0.000	15:07
CHK	0.241	15:08
BLK	0.000	15:09
CHK	0.241	15:10
BLK	0.000	15:12

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010601 Test Number: 644
Test Date: 11/15/2013 Test Time: 15:14 EST

Technician Initials: DBH

Dry Gas Target: 0.146

Lot Number: 2951215012-03 Exp Date: 11/01/2014

Tank Pressure: 600 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:14
BLK	0.000	15:15
CHK	0.145	15:16
BLK	0.000	15:17
CHK	0.145	15:18
BLK	0.000	15:19
CHK	0.145	15:20
BLK	0.000	15:22

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH

msk

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010601 Test Number: 645

Test Date: 11/15/2013 Test Time: 15:24 EST

Technician Initials: DBH

Dry Gas Target: 0.078

Lot Number: 06512080I2-03 Exp Date: 04/01/2014

Tank Pressure: 90 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:24
BLK	0.000	15:25
CHK	0.078	15:26
BLK	0.000	15:27
CHK	0.078	15:28
BLK	0.000	15:29
CHK	0.078	15:30
BLK	0.000	15:32

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH

MM

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010601 Test Number: 646
Test Date: 11/15/2013 Test Time: 15:34 EST

Technician Initials: DBH

Dry Gas Target: 0.019

Lot Number: 0771302011-02 Exp Date: 05/01/2015

Tank Pressure: 938 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:35
BLK	0.000	15:35
CHK	0.018	15:36
BLK	0.000	15:37
CHK	0.019	15:38
BLK	0.000	15:39
CHK	0.019	15:40
BLK	0.000	15:41

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010601 Test Number: 647

Test Date: 11/15/2013 Test Time: 15:44 EST

Dry Gas Target: 0.292

Lot Number: AG322702-07 Exp Date: 08/15/2015

Tank Pressure: 536 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	15:45
CHK	0.293	15:46
BLK	0.000	15:48
CHK	0.293	15:48
BLK	0.000	15:50
CHK	0.293	15:51

Test Status: Success

Calibration CRC: 6577EBA4

DBH

MSH

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010601 Test Number: 648

Test Date: 11/15/2013 Test Time: 15:54 EST

Dry Gas Target: 0.097

Lot Number: AG320502-23 Exp Date: 07/24/2015

Tank Pressure: 1115 psi Barometric Pressure: 739 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	15:55
CHK	0.097	15:56
BLK	0.000	15:57
CHK	0.097	15:58
BLK	0.000	15:59
CHK	0.097	16:00

Test Status: Success

Calibration CRC: 6577EBA4



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED	NAME OF COURT
INSTRUMENT, TEST,	DFS

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY		AGENCY
HALL, DONALD, B		DFS Central Lab
DFS LICENSE NUMBER	LICENSE EXPIRES	DATE TEST CONDUCTED
21250	10/01/2014	11/15/2013
TEST EQUIPMENT NUMBER		
010601		

RESULTS: TIME SAMPLE TAKEN 16:09 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 18 Nov 2013 at 12:17

DB14
MHL

Test Results

Instrument Serial Number 010601

Test # 000649 Subject Test

Test Location 1 Department of
Test Date 15 Nov 2013

Test Location 2 Forensic Science
Test Time 16:02
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 15 Nov 2013 End Time 16:10

Result Time 16:09

Result Date 15 Nov 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 16:02

Data Type BLK

Sample Value 0.000

Sample Time 16:03

Data Type CHK

Sample Value 0.097

Sample Time 16:04

Data Type BLK

Sample Value 0.000

Sample Time 16:05

Data Type SUBJ

Sample Value 0.000

Sample Time 16:06

Data Type BLK

Sample Value 0.000

Sample Time 16:07

Data Type SUBJ

Sample Value 0.000

Sample Time 16:09

Data Type BLK

Sample Value 0.000

Sample Time 16:10

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG320502-23

Standard Expiration Date 07/24/2015

Tank Pressure 1115

Barometric Pressure 739 mmHg

Blow Sample Number 1 Blow Duration 3.64 sec

Blow Volume 2089 cc End-of-Blow Time 16:06

Blow Sample Number 2 Blow Duration 3.93 sec

Blow Volume 2064 cc End-of-Blow Time 16:09

Tamper Evident Stamp 38c2bb4b

Test Status Code 0

Test Status Success